Genetic Engineering

**Ch. 15 Survey**

1. What is selective breeding and how has it been used?
2. Explain how selective breeding was used to produce corn?
3. What are hybridization and interbreeding and give examples of each?
4. What is Biotechnology?
5. How have scientists used bacterial mutations to their benefit?
6. How are polyploidy plants created and what have been some of their uses?
7. What is PCR?
8. What is recombinant DNA and how is it useful?
9. What is a plasmid and how it is used?
10. How are genetic markers used?
11. What is a transgenic organism? Give an example of a transgenic plant,

animal, and a clone.

1. Give two examples of how genetically modified organisms lead to a more

environmentally friendly agricultural practices.

1. Name two other benefits that may be gained from genetically

engineering food crops.

1. Give two examples of how DNA modification has increased the importance of

transgenic animasl to our food supply.

1. What is gene therapy?
2. What is meant by your DNA fingerprint? How are they used and what are

some or their pro and cons?

1. What are the pros and cons of genetically modified food?